(such as, for example, blood pressure) and a time stamp. The Monitoring Client **1** can be programmed to determine whether the value is outside a predetermined range, record the value in the patient's EHR **19**, and notify the appropriate care-giver via their communications device **11**. Furthermore, the network may enable bidirectional communications, and may allow the Monitoring Client **1** to query **15** the monitoring device, instructing it **18** to take an unscheduled reading. This can be useful, for example, when an abnormal reading is received, and its authenticity needs to be verified. The Monitoring Client **1** may be programmed to request a repeat reading to verify the abnormal reading. In a further refinement, the Monitoring Client **1** may be programmed to interrupt or adjust the infusion pump **7** flow rate, depending on the value of the reading received from a monitoring device **14-17**. For example, if the BP monitor **15** indicates a blood pressure below a pre-determined acceptable range, the Monitoring Client **1** may be programmed to instruct the infusion pump **7** to stop the infusion, and it can transmit an urgent notification **12** to the health care provider(s)' communications devices **11**. In another embodiment, if the infusion pump **7** is capable of measuring the volume of fluid being delivered to the patient **2**, a processor in the Monitoring Client **1** may track the cumulative volume delivered and estimate the amount of fluid remaining in the medication bag. (Alternatively, a processor in the Monitoring Client **1** or infusion pump **7** may calculate the volume delivered from the infusion rate and elapsed time of infusion). Once the estimated residual volume reaches a pre-determined amount, the Monitoring Client **1** may signal the infusion pump **7** to reduce its flow rate to keep the patient's IV access **35** from running dry. It may also send a notification to the nurse's communications device **11**, recommending replenishment of the medication or solution.

What is claims is:

1. An electronic patient monitoring system comprising:

an active wireless system including a micro-cellular network, the active wireless system including a monitor configured to detect intensity of use, the active wireless system configured to allocate channel frequencies in accordance with the detected intensity of use of an area by directing additional channel frequencies to the area;

a monitoring-server computer configured to retrieve physiological data of a patient from a database computer;

a tablet configured to operatively communicate with the monitoring-server computer to receive and locally store the physiological data of the patient received from the monitoring-server computer;

an infusion pump configured to infuse the patient with a medication; and

a smart phone in operative communication with the tablet, wherein the smart phone is configured to access the physiological data of the patient directly from the tablet without accessing the monitoring-server computer, wherein the monitoring-server computer, the tablet, and the smart phone are configured to communicate with each other over the micro-cellular network enabling the tablet to remain in communication with the monitoring-server computer while being mobile within a facility, wherein the smart phone is configured to display the physiological data of the patient next to a treatment order of the medication with an option to send the treatment order to the infusion pump and an option to view a reference of detailed information including information about the medication, the smart phone is configured to instruct the infusion pump to treat the patient with the medication via the micro-cellular network when the smart phone receives user input to treat the patient and the infusion pump is configured to execute treatment of the patient upon receipt of instruction from the smart phone, the smart phone configured to display the reference when the smart phone receives user input to view the reference.

2. The electronic patient monitoring system according to claim **1**, wherein the smart phone communicates with the tablet using a wireless connection.

3. The electronic patient monitoring system according to claim **1**, wherein the smart phone is configured to communicate with the tablet while outside of the facility having an associated patient located therein.

4. The electronic patient monitoring system according to claim **1**, wherein the smart phone is configured to change at least one setting of the infusion pump based at least in part on data other than the physiological data of the patient and transmit the at least one setting to the tablet.

5. The electronic patient monitoring system according to claim **4**, wherein the system is configured to communicate the at least one setting to the monitoring-server computer.

6. The electronic patient monitoring system according to claim **1**, wherein the tablet is configured to store at least one of orders, medications, progress notes, and monitoring and treatment data from a device attached to a patient.

7. The electronic patient monitoring system according to claim **6**, wherein the tablet is configured to periodically upload at least one of orders, medications, progress notes, and the monitoring and treatment data from the device attached to the patient to the database computer for permanent storage therein.

8. The electronic patient monitoring system according to claim **1**, wherein the physiological data of the patient includes at least one of an age, a height, a weight, a current medication, a medication category, a medication allergy, and a medication sensitivity.

9. The electronic patient monitoring system according to claim **1**, wherein the tablet is configured for assignment to a patient.

10. The electronic patient monitoring system according to claim **9**, wherein the tablet is configured for assignment to the patient utilizing a unique patient identifier.

11. The electronic patient monitoring system according to claim **10**, wherein the unique patient identifier is embedded on a bar code.

12. The electronic patient monitoring system according to claim **10**, wherein the unique patient identifier is embedded within an RFID tag-embedded wrist band.

13. The electronic patient monitoring system according to claim **1**, wherein the tablet is physically associated with the infusion pump.

14. The electronic patient monitoring system according to claim **1**, further comprising a patient monitoring device configured to measure a physical characteristic of a patient, wherein the tablet receives the measure of the physical characteristic of the patient in real time.

15. The electronic patient monitoring system according to claim **1**, wherein the tablet is adapted to determine if a new order meets predetermined criteria based upon a subset of the physiological data of the patient.